

CLAIM AMENDMENTS

Claims 1-5 (Cancelled)

Claim 6 (Currently Amended) ~~The An automatic gear shifting device for a vehicle according to Claim 5 further comprising, in combination:~~
~~means for selectively shifting gears of the vehicle when a brake pedal of the vehicle is engaged;~~
~~an arm having an end portion pivotally coupled to said shifting means for selectively shifting gears;~~
~~means for providing reciprocating motion coupled to a portion of said arm for moving said arm when the brake pedal is engaged, said means for providing reciprocating motion comprising at least one actuator for moving said arm when the brake pedal is engaged; and~~
a pair of actuators, said pair of actuators comprising a neutral gear positioning solenoid and a drive gear positioning solenoid, said neutral gear positioning solenoid activated and said drive gear positioning solenoid deactivated when the brake pedal is engaged and said drive gear positioning solenoid activated and said neutral gear positioning solenoid deactivated when the brake pedal is disengaged.

Claim 7-11 (Cancelled)

Claim 12 (Currently Amended) ~~The An automatic gear shifting device for a vehicle according to Claim 9 further comprising, in combination:~~
~~a transmission linkage shaft for shifting gears of the vehicle; a member coupled to a portion of a surface of a motor compartment of the vehicle, said member having an opening for receiving said transmission linkage shaft;~~

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an arm having an end portion pivotally coupled to said transmission linkage shaft for shifting from drive gear to neutral gear when a brake pedal is engaged;

at least one actuator for providing reciprocating motion, said at least one actuator coupled to said arm for moving said arm when the brake pedal is engaged; and

a pair of actuators; said pair of actuators comprising a neutral gear positioning solenoid and a drive gear positioning solenoid, said neutral gear positioning solenoid activated and said drive gear positioning solenoid deactivated when the brake pedal is engaged and said drive gear positioning solenoid activated and said neutral gear positioning solenoid deactivated when the brake pedal is disengaged.

Claims 13-18 (Cancelled)

Claim 19 (Currently Amended) ~~The A~~ method for achieving improved fuel economy of a vehicle according to ~~Claim 18 further~~ comprising the steps of:

providing means for selectively shifting gears of the vehicle when a brake pedal of the vehicle is engaged;

providing an arm having an end portion pivotally coupled to said means for selectively shifting gears; and

providing reciprocating motion means, said reciprocating motion means coupled to said arm for moving said arm when the brake pedal is engaged,
said reciprocating motion means comprising at least one actuator for moving
said arm when the brake pedal is engaged;

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providing a pair of actuators, said pair of actuators comprising a neutral gear positioning solenoid and a drive gear positioning solenoid;
activating said neutral gear positioning solenoid and deactivating said drive gear positioning solenoid when the brake pedal is engaged; and activating said drive gear positioning solenoid and deactivating said neutral gear positioning solenoid when the brake pedal is disengaged.

Claim 20 (Cancelled)

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